

MANUFACTURE OF METALLIZED SYNTHETIC FIBER STAPLE

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Abstract

PURPOSE: To obtain the titled staple having excellent antistaticity and antibacterial property, by flattening a continuous synthetic fiber tow, metallizing the surface of the tow with a metal having electrical conductivity and antibacterial property, cutting the tow in the form of staples, and mixing the staples.

CONSTITUTION: A continuous tow of a synthetic fiber, preferably an acrylic fiber, free from a textile lubricant is flattened to a thickness of ≤ 0.5 mm, preferably ≤ 0.3 mm, with a tow creel and a drawing roller. One or both surfaces of the flattened tow are metallized with a metal having electrical conductivity and/or antibacterial property (e.g. Al) with a vacuum-metallizing device, and the metallized tow is cut to staples and mixed.